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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/045,927	10/045,927 01/09/2002		Thomas B. Berg B	BEA920000017US1	3067
25253	7590	10/29/2003	•	EXAMINER	
IBM COR	PORATI	ON	MOAZZAMI, NASSER G		
IP LAW DI 15450 SW 1			ART UNIT	PAPER NUMBER	
BEAVERTON, OR 97006-6063				2187	Ч
			DATE MAILED: 10/29/2003	DATE MAILED: 10/29/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		- Pec					
	Application No.	Applicant(s)					
Office Action Common in	10/045,927	BERG ET AL.					
Office Action Summary	Examiner	Art Unit					
The MAN INO DATE of this communication and	Nasser G Moazzami	2187					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply t ft NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS fr cause the application to become ABANDO	e timely filed days will be considered timely. om the mailing date of this communication. NED (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on <u>09 J</u>	<u>anuary 2002</u> .						
2a)☐ This action is FINAL . 2b)⊠ Thi	is action is non-final.						
3) Since this application is in condition for allowa							
closed in accordance with the practice under <i>l</i> Disposition of Claims	ex parte Quayle, 1935 C.D. 11	, 453 O.G. 213.					
4) Claim(s) 1-9 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) ☐ Claim(s) <u>1-9</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
	priority under 35 U.S.C. & 110)(a)-(d) or (f)					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
<u> </u>	s have been received						
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bur * See the attached detailed Office action for a list of	eau (PCT Rule 17.2(a)).	· /					
14)☐ Acknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 11	9(e) (to a provisional application).					
 a) The translation of the foreign language provides 15) Acknowledgment is made of a claim for domestic 							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.	5) Notice of Inform	ary (PTO-413) Paper No(s) al Patent Application (PTO-152)					

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DETAILED ACTION

Specification

1. Claims 1-9 are presented for examination.

Drawings

2. The Formal Drawings submitted by applicant has been approved by the office draftsperson.

Information Disclosure Statement

3. The Information Disclosure submitted by applicant has been considered. Please see attached PTO-1449.

Claim Objections

4. Claim 3 is objected to because of the following informalities:

Line 2, "accessable" should be changed to -accessible ---.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Luick et al., hereinafter Luick (U.S. Patent No. 6,088,769).

As for claims 1-2, 4-5, and 7-8, Luick discloses a method for maintaining cache coherence [maintaining coherence between memories (column 1, line 9)] in a multiprocessor system having a plurality of nodes [nodes 101 (see Fig. 1)] coupled by an interconnecting communications pathway [global coherence unit 123 (see Fig. 1)] which is capable of storing information regarding the location and state of data within the system [global coherence table 129 indicate the most current copy of data and where it is reside (column 2, lines 50-54)], each node having at least one cache [cache 115 and cache 117 (see Fig. 1)], a memory device local to the node [memory 105 (see Fig. 1)], and at least one processor device [processor 103 (see Fig. 1)], the processor device within each node being capable of accessing data from the local memory device, the local cache, or over the interconnecting communications pathway from a non-local memory device or a non-local cache [communication between the nodes and transfer of data from one node to another (column 2, lines 46-48)], the method comprising: storing information regarding the state of data in said interconnecting pathway; checking said stored information to determine the location of the most current copy of a requested portion of data, in response to a request by a requesting node for the requested portion of data [the global coherence table indicate Application/Control Number: 10/045,927

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the data is being shared and also where the most current copy of the data is resided (column 2, lines 50-54)]; retrieving said current copy of requested portion of data and directing said data to the requesting node [transferring the data from a first node to a second node (column 2, lines 58-59)]; checking said stored information to determine the location of the requested data [global coherence table preferably indicates the location of data (column 2, lines 52-55)]; and directing the system to send said requested data to the requesting node without going through the said interconnecting communications pathway node [transferring the data from a first node to a second node (column 2, lines 58-59)].

As for claim 3, Luick discloses that each node includes memory [local caches 115, 117, and local memory 105 (see Fig. 1)] accessible to it without communications through said communications pathway [checking local caches or local memory for the requested data (see Fig. 3, steps 301 through 309)], and memory accessible remotely by others of the nodes [sending the request to other nodes (see Fig. 3, steps 313 through 321)].

As for claim 6, Luick discloses a dispatch buffer [cache controller 113 (see Fig. 1)].

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Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Patent No. 6,085,295 (Ekanadham et al.)

U.S. Patent No. 5,787,476 (Laudon et al.)

U.S. Patent No. 5,749,095 (Hagersten)

U.S. Patent No. 5,535,365 (Barriuso et al.)

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nasser G Moazzami whose telephone number is (703) 305-0017. The examiner can normally be reached on 7:00AM-5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald Sparks can be reached on (703) 308-1756. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

 Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 746-7240.

Nasser Moazzami

10/24/2003

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